

# Tilemachos Aravanis

✉ [t.aravanis77@gmail.com](mailto:t.aravanis77@gmail.com)

🌐 [Personal Page](#)

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## Employment History

- Sept. 2025 – Present 📌 **PhD Student, VRG, CTU in Prague.** I am currently pursuing a PhD under the supervision of [Giorgos Toliás](#), focusing on instance-level recognition. In a few words, I am trying to create models that recognize (retrieve-classify-detect-segment) particular objects in an open-world environment.
- Dec. 2024 – May 2025 📌 **Research Intern, VRG, CTU in Prague.** Worked on "Open Vocabulary Semantic Segmentation" under the supervision of [Giorgos Toliás](#).
- March 2024 – Oct. 2024 📌 **Junior Researcher, EightBells Research.** Contributed to EU Horizon projects. Took part in and later led tasks in high-impact projects such as [TALON](#) and [TREEADS](#), involving diverse technologies including AR/VR systems and hardware orchestration platforms.

## Education

- 2019 – 2025 📌 **M.Eng. in Electrical and Computer Engineering, National Technical University of Athens (NTUA).** Specialization: Informatics. GPA: 9.2/10 (top 4%, with honors).  
**Diploma Thesis:** *Personalization of Text to Image Generation via Explainability of Attention Mechanism.* Conducted within [CVSP Lab](#) under the supervision of [Petros Maragos](#) and [George Retsinas](#).

## Miscellaneous Experience

- 2024-Present 📌 **Education Department Member, UniAI** — Student initiative promoting AI in Greece. [uniai.gr](http://uniai.gr)
- 2023 📌 **Rocketry Department Member, Spin Space Innovation** — Non-profit advancing Greek space technology. [space-innovation.org](http://space-innovation.org)

## Research Publications

- 1 Tilemachos Aravanis, Panagiotis Filntisis, Petros Maragos, and George Retsinas. "Only-Style: Stylistic Consistency in Image Generation without Content Leakage". In: *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV) Workshops*. **Best Student Paper Award** at the Personalization in Generative AI Workshop. [PDF]. Oct. 2025.
- 2 Tilemachos Aravanis, Vladan Stojnić, Bill Psomas, Nikos Komodakis, and Giorgos Toliás. "Retrieve and Segment: Are a Few Examples Enough to Bridge the Supervision Gap in Open-Vocabulary Segmentation?" In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. [PDF]. Feb. 2026.
- 3 Bill Psomas, Dionysis Christopoulos, Eirini Baltzi, Ioannis Kakogeorgiou, Tilemachos Aravanis, Nikos Komodakis, Konstantinos Karantzas, Yannis Avrithis, and Giorgos Toliás. "Attention, Please! Revisiting Attentive Probing Through the Lens of Efficiency". In: *Proceedings of the International Conference on Learning Representations (ICLR)*. [PDF]. June 2025.